Atty. Docket No. 200314557-1 January 19, 2007

## Claim Amendments

Please amend the claims to be as follows.

1. (currently amended) A method of compiling a computer program with inline specialization, the method comprising:

given a call-graph, if multiple call-chains in [[it]] the call-graph have at least one a common call site, the ability, to inline a inlining the common call site in one or more (but not all) of the call-chains, without necessarily inlining the common call site into all of said multiple call-chains having the common call site.

(original) The method of claim 1, further comprising:
 whenever a call site from routine x to routine y is inlined, new edges are added from

routine x to all routines inlinable within routine y.

- 3. (original) The method of claim 2, further comprising:
  materialization of summary information for new call sites added to the call-graph.
- (original) The method of claim 3, further comprising:
   addition of the new call sites to the global work-list so that these call sites are considered for inlining.
- 5. (original) The method claim 4, further comprising: addition of dependence relationships between call sites. If a new call site, y, is added because of inlining of call site, x, then y is dependent on x.
- 6. (original) The method of claim 5, further comprising:

  patching of the new call site, y, during inline transformation of call site, x, with the
  aim of generating the intermediate transformation for call site, y.

- 7. (currently amended) An apparatus for compiling a computer program with inline specialization which includes the ability, the apparatus comprising:
  - means to inline a common call site in one or more (but not all) of the call-chains in a call-graph, without necessarily inlining the common call site into all call-chains having the common call site.
- 8. (original) The apparatus of claim 7, wherein whenever a call site from routine x to routine y is inlined, new edges are added from routine x to all routines inlinable within routine y.
- 9. (original) The apparatus of claim 8, wherein materialization of summary information for new call sites added to the call-graph is performed.
- 10. (original) The apparatus of claim 9, wherein the new call sites are added to the global work-list so that these are considered for inlining.
- 11. (original) The apparatus of claim 10, wherein dependence relationships are created between call sites.
- 12. (original) The apparatus of claim 11, wherein the inline transformation patches up the intermediate representation of the new call sites (by considering the dependence relationships) before potentially inlining them.
- 13. (currently amended) A computer program product comprising a computer-usable medium having computer-readable code embodied therein, the computer program product being eompiled from a source code compiler with cross-module optimization, the compiler including an inline specialization feature such that given a call-graph, if

multiple call-chains in [[it]] the call-graph have at least one a common call site, the ability exists to inline a the common call site is inlined in one or more (but not all) of the call-chains, without necessarily being inlined into all of the multiple call-chains having the common call site.